

A Protective and Measure Device for Multiple Cold Cathode Fluorescent Lamps

Abstract of Disclosure

The preferred embodiment pertains to an electronic ballast functioning as a high-frequency power source for driving multiple cold cathode fluorescent lamps (CCFLs), primarily by parallel connecting one end of each of a plurality of CCFL to a measure element to measure the LED power source provided by the measure element's photocoupler, and concurrently serially connect the photocoupler's collect-emitter terminal, followed by employing comparators to assess the open circuit, over current, and under current among multiple cold cathode fluorescent lamps. Said electronic ballast serves to protect CCFLs, and thus contribute to the quality and protection required for large LCD monitors.